

# Why Change GMU 2 Wolf Management?

### 2015-2018 - Frustration with HGL-Quota system.

- Trapper frustration with management under quota system.
  - Quotas too low.
  - Season length unpredictable.
  - Safety/weather concerns over EO closures with short notice.
- ADF&G had difficulty monitoring harvest to meet quota with
   14-day sealing period and lacked a goal for population.



7

# What Would Be Better?

## **Trappers**

- Greater predictability to plan trapping effort.
- -Longer notice on when season would close.
- Public goal for GMU 2 wolf population.

# ADF&G

- Sustainable harvest management.
- A measurable goal for the population, not just harvest.
- Reduced controversy over management decisions.



# **Current GMU 2 Wolf Management**

2017-2018 – plan developed with broad public involvement. 2019 Board meeting.

- Eliminated HGL.
- Adopted fall population objective, 150-200 wolves.
- Manage harvest by season length with EO issued before trapping season opens.
- Confirm fall population meets objective with regular estimates.

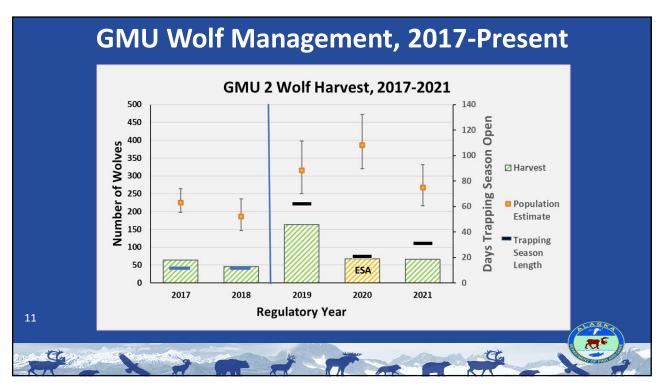


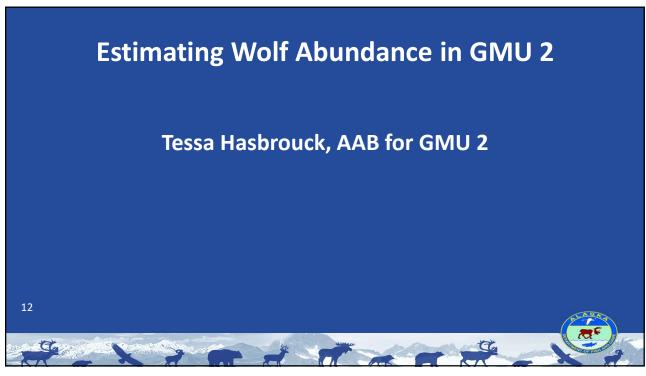
C

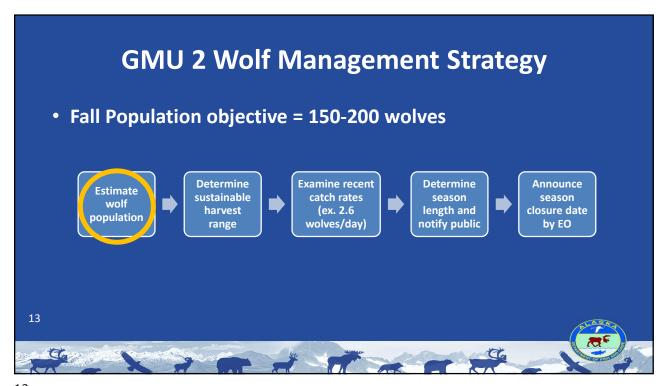
# **Key Features of Current Management**

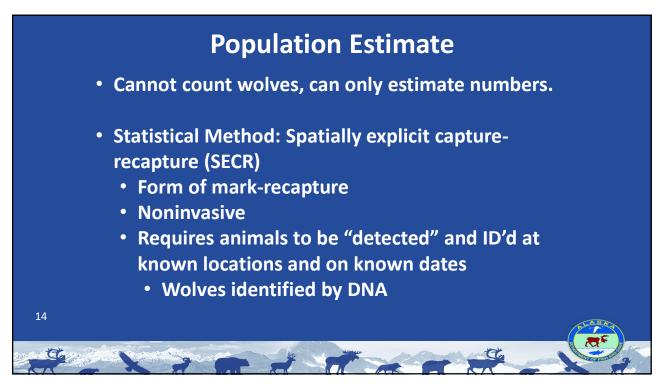
- Population Objective a measurable goal that focuses on the number of live wolves in the population.
- Regular Population Estimates.
- Harvest managed by varying opportunity relative to abundance.
- Predict harvest based on recent harvest rates. Sustainable harvest range, not a quota.
- Trapping season closure date announced before the season.
- Some in-season harvest monitoring capability.

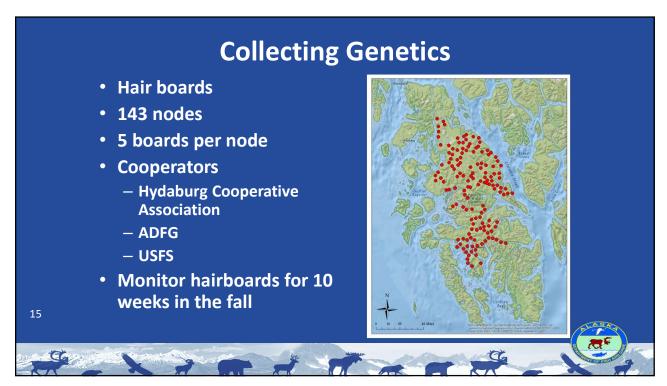


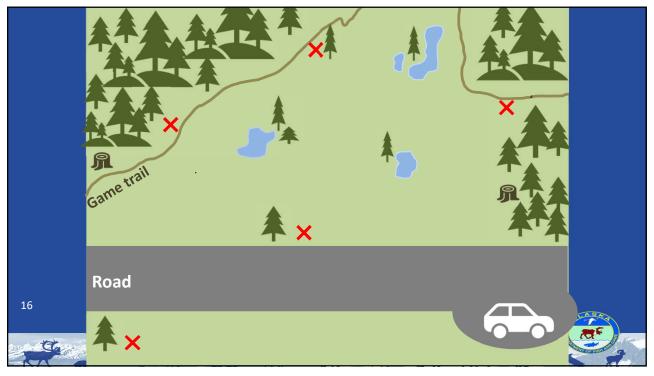


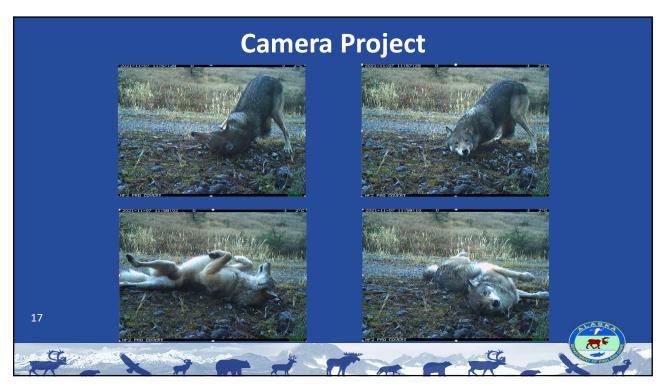


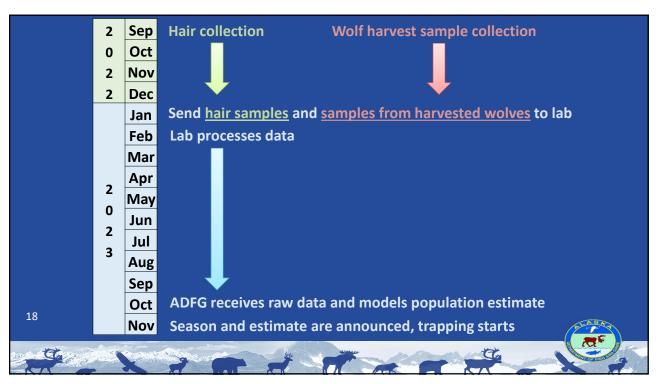


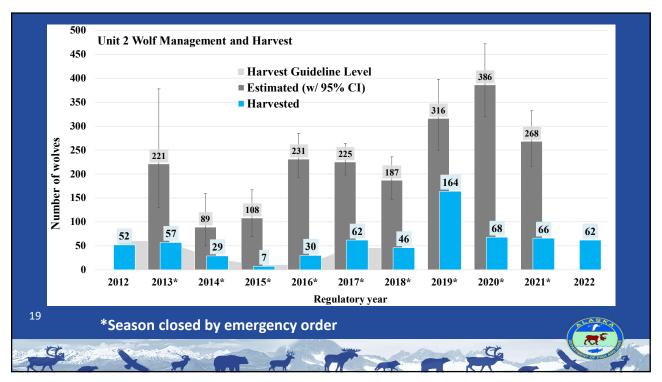




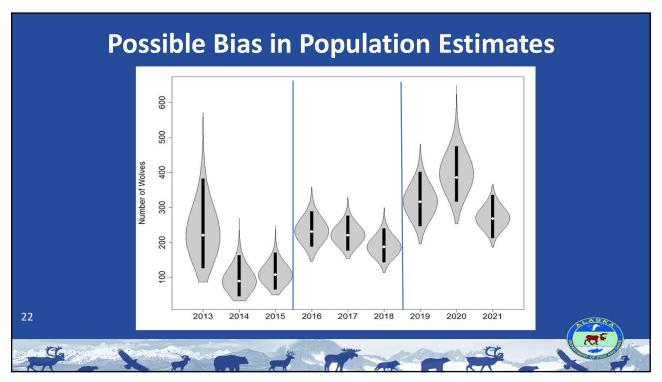








# New Findings Since 2019 1. Likely bias in pre-2019 population estimates. 2. GMU 2 wolves mostly isolated with high degree of inbreeding (Zarn 2019).



# **How Many Wolves Do We Need in GMU 2?**

ADF&G's Goal – sustainably harvestable wolf population that balances effects of wolf predation with deer hunter harvest.

- Since 2020 managing for a fall population > objective.
- Sustainable population size likely related to degree of isolation and genetic diversity within the population.

23



# **Ongoing Work and Future Plans**

- Update GMU 2 Wolf Management Plan.
- Evaluating refinements to SECR population estimates.
- Camera-based estimation techniques PhD project with UAF.
- Genetic evaluation structuring, connectivity, and genetic diversity among Southeast wolf populations.
- PVA modeling to estimate size for a sustainably harvestable GMU 2 population.



23

